

**Friday June 19, 2020
MEETING is VIRTUAL !**

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*The 2020 COVID-19 pandemic required the club to cancel all in-person meetings for the duration of the emergency. In response, the Club began meeting electronically, using the **zoom.us** system. Invitations to each publicly available meeting will be sent out via our groups.io email reflector, making it even more important that you join this email group. See page 13 for details on Zoom.*



June Program Via Zoom Teleconference

Phones, Fires and Radio for the Rest of Us

By Alan R. Thompson, W6WN and Bob Hess, W1RH

This virtual presentation details the catastrophic communications failures during the first few hours of the Camp Fire which impacted first responders and residents, hampering evacuations and placing lives at risk. The webinar then highlights how these same communications failures have occurred year after year throughout the US and will likely occur again. Much of California shares the same fire conditions that destroyed Paradise. Alan Thompson and Bob Hess will detail how the El Dorado County Amateur Radio Club is working with local fire safe councils and community groups to provide potentially life-saving "non-ham" community radio programs should a similar disaster occur in El Dorado County. Bob and Alan will also cover why investing resources in non-ham Community Radio programs has the potential to actually help ensure the sustainability and growth of amateur radio clubs.



W6WN



W1RH

This month's meeting will be held virtually only, via our Zoom videoconferencing system. The meeting access ID and password will be distributed via groups.io email announcement. Our meeting will also be shown on the club digital amateur television repeater, which is live streamed at: <http://w6cxatv.mdarc.org/>



John Maguire, AA6ZT
Hal Hunter, K6RF

If you hear these new members on the air,
please welcome them to our club.

— *Roger Hooten, W6UZ*



amazonsmile
You shop. Amazon gives.

**When you purchase at Amazon dot com
smile, a portion of your purchase is
donated to our club.**

Go to:
<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE CLUB
E-MAIL GROUP AND SHARE INFORMATION
WITH THE MEMBERSHIP AT:

<https://groups.io/g/MDARC>

(the Yahoo group was abolished)

Mount Diablo Amateur Radio Club W6CX
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The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Ed Morales, KJ6KYT
Secretary - Larry Loomer, KI6LNB
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large
Trevor Hall, WA6JAU Dave Piersall, N6ORB
Roger Hooten, W6UZ Mike Warren, W6MEW

Membership Chair - Roger Hooten, W6UZ
mdarcmembership@mdarc.org

PACIFICON 2020

Chair: Julie Mah, WJ8MAE
Registration: Debbie Deeble, KN6DOM
Treasurer: Jim Siemons, W6LK
Secretary: Cathi Walton, K2CJW

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Public Service - Klaus Berkner, K6KHB
Radio Equipment Lending - Brent Morgan, AF6HQ
Refreshments - Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jim Tittle, K6SOE
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Siemons, W6LK

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Amateur Television Help and Information:
Fred Coe, WB6ASU wb6asu@icloud.com

President's Message



June 2020

MDARC Family

As they say, “back in the saddle again” or in my case back home to California and in my ham shack. And the funny thing is that you would think that after only 4 months that I would know where everything is and where it belongs. Not the case as I recently discovered when I needed to add Anderson Powerpoles to the power cable (E850775) for Elecraft’s KX2 transceiver so it would connect with the Bioenno 12V, 30Ah Li-Po battery I bought at Pacificon last year. I had to hunt to find the small case containing these Powerpoles and then even further to find the small tool used to push (“persuade”) the metal contacts into the housing. But success!

This picture is typical of my daily routine on the Oregon coast: find a nice, quiet spot off one of the many national forest roads and set up an Elecraft KX2 rig using either their AX1 multi-band whip antenna and associated 13-foot ground wire, or an end-fed 20M dipole from Vibroplex with one end attached to a 20’ Jackite fiberglass pole. (thanks Dave N6ORB for showing me this item). I did a lot of listening and learning during these times. And of course, my dog was always helpful or providing me with challenges. Also, having lunch and coffee on the tailgate was always nice.



They say that there are all kinds of people in the world and that goes for our hobby as well. Sadly while “traveling the 20M airwaves,” I came across some who were not taking the Covid-19 pandemic seriously. For example, my listening notes from 05/25/20 show a QSO that included an 82-year old operator who was downplaying the seriousness of this pandemic and was largely uninformed. Did I contact him to “set him straight?” Although I thought about it, I did not because doing so would have been contrary to what I consider as good operator conduct.

Sure, I realize that our hobby represents a vast spectrum of thoughts on this pandemic, but nevertheless, I hope you are adhering to your county’s restrictions. And yes, we all know that there has been some lifting of these restrictions as we still follow health safety guidelines.

I don’t know about you, but when I look in the mirror, I see a lot of gray hair indicative of my 73 years which puts me in the high-risk group. In this context, high-risk does not mean that we are necessarily at greater risk of catching the virus, but we are at greater risk in

succumbing to it. It is no news that many amateur radio operators are older than 65 and therefore in that high risk group. So, I want to encourage everybody...young and old alike... to remain vigilant during these times for your own safety and those of others.

Did you join our virtual Club’s monthly membership meeting on May 15th? Many did, most with their video turned on, some not, but it was great to get together in this way even if we were all in different QTHs. If you were not “present” at that meeting you missed a great presentation by Marcel Steiber, AIGMS on the Automatic Packet Reporting System (APRS). So don’t miss out on June 19th with the presentation by Alan Thompson, W6WN and Bob Hess, W1RH EDCARC President. This will be titled: Phones, Fires, and Radios for the Rest of Us. If you had the opportunity to hear Alan last year at Pacificon, you know this will be a highly informative and timely presentation from he and Bob. Don’t miss it!

Be sure to check out the MDARC.org website for information on the guidelines for using Zoom: <http://www.mdarc.org/about-us/zoom-guidelines>

What you say? You did not get an invitation to join our Zoom virtual meeting. Well, if you are not signed on to the MDARC email group reflector, then you are missing out because that is currently the only secure method we use to send these virtual meeting invitations.

I want to encourage you sign on to this group reflector, so please check out our MDARC website to see how easy it is to do this.

<http://www.mdarc.org/about-us/communicating-with-you#groups>

Do you know these fellow hams? Dave Piersall, N6ORB; Mike Warren, W6MEW; Roger Hooten, W6UZ; and Trevor Hall, WA6JAU. These are **your** Directors at Large. I see them as the “eyes and ears” of our Club to represent the membership’s wishes, concerns and thoughts. In short, these Directors are there to listen to **you** and then report back to the Board for discussion and action. The Board meeting Agendas always allow for feedback reports from each of these Directors. Please remember that these Directors sit on the Board and as such can present Motions and have voting rights. So, take advantage of them to express your thoughts to make our Club even better.



Gustav Kirchhoff

March 12, 1824-October 17, 1887

Subjects of Study

Spectroscopy

Electricity

Sun

Cesium

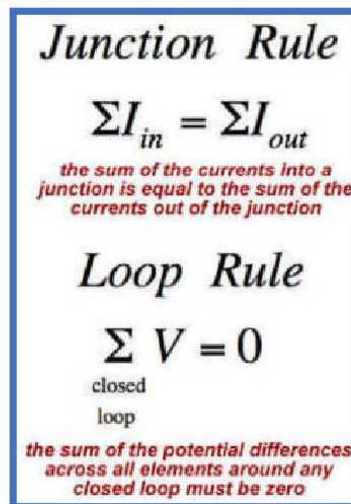
Rubidium

Kirchhoff's rules

The first rule, the [junction theorem](#), states that the sum of the currents into a specific junction in the circuit equals the sum of the currents out of the same junction. Electric charge is conserved: it does not suddenly appear or disappear; it does not pile up at one point and thin out at another.

The second rule, the [loop equation](#), states that around each loop in an electric circuit the sum of the [emf's](#) ([electromotive forces](#), or voltages, of energy sources such as batteries and generators) is equal to the sum of the potential drops, or voltages across each of the resistances, in the same loop. All the energy imparted by the energy sources to the charged particles that carry the current is just equivalent to that lost by the charge carriers in useful work and heat [dissipation](#) around each loop of the circuit.

Credits: Encyclopedia Britannica: <https://www.britannica.com/science/Kirchhoffs-rules>



"The greatest motivational act one person can do for another is to listen." Roy E. Moody

Stay safe,

73

Larry Bradley KK6QPE

06/07/2020

MEMBER ACHIEVEMENTS

Each month, our newsletter will highlight members who were recently recognized by the amateur radio community for their exemplary service to our hobby.

In the May 28, 2020 issue of the *ARRL Letter*, Larry Loomer, KI6LNB, was recognized by the League for his ingenious drive-in amateur radio license examination session conducted at the Concord BART station on May 16.

In the June 2020 issue of *QST* magazine, Jim Brunk, N6BHX, was recognized by the ARRL for reaching fifth place on Volunteer Examiner Honor Roll for the entire Pacific Division.

Please report member accolades to Membership Secretary Roger Hooten, W6UZ, at mdarcmembership@mdarc.org



No response has been received for our club's request to use the North Concord BART station parking lot for Field Day. The Contra Costa County Health Department currently has a 3 hour limit on public gatherings, which would severely restrict Field Day operations at this and other public locations. Please monitor the club's groups.io messages for further developments.

— Larry Loomer, KI6LNB, Field Day Chair

On May 28, the ARRL Programs and Services Committee (PSC) adopted these provisions only for the June 27 – 28, 2020, event: (1) Class D stations may work all other Field Day stations, including other Class D stations, for points, and (2) an aggregate club score will be published, which will be the sum of all individual entries that indicate a specific club.

Q: Several of our club members are going to operate independently and wish to attribute their scores to the aggregate club score. What call sign should they use?

A: Participants should use their own call signs. Except for Class C (mobile) entries, all transmitters, receivers, and antennas must be located within a 1,000-foot-diameter circle may operate using a single call sign. This prohibits the use of a single call sign from more than one location. Under the 2020 waiver, those operating from home, including backyard operations, must use their own station call signs. Multiple home stations operating with a club call sign or modified club call sign, such as W1AW-1, W1AW-2, W1AW-3, etc, are not allowed.

Q: How does my club submit an aggregate club score? Does the club need to add up each participating member's scores and submit a club entry with the aggregate score under the club call sign?

A: Each participant will submit his or her own independent entry under his or her call sign. ARRL will calculate the aggregate score based upon the club name entered on the official Field Day entry form via the web applet (preferred method) or on the paper Field Day entry form. **In order for results to be tabulated correctly, all club participants must enter the club's official name exactly the same, NO abbreviations or acronyms. This is important!**

Q: Our group is still planning to operate at the usual Field Day site, but some members do not feel comfortable gathering in a large group this year. Can we still submit an entry using the club call sign, as well as have members operating from home using their own call signs?

A: Yes. If your club is still hosting a group Field Day effort, it will submit an entry as usual, using the club call sign. Club members operating at home will submit separate entries with their own call signs and will enter the club name **SPELLED EXACTLY THE SAME WAY ON ALL ENTRIES (Mount Diablo Amateur Radio Club...NO ABBREVIATIONS)** on the entry form for club aggregate scoring.

Q: Can a club member operate from home using the club call sign?

A: Yes, but the call sign may only be used in one location. The member must receive permission from the trustee of the club call sign.

Above from: <http://www.arrrl.org/news/arrrl-contest-program-issues-field-day-2020-faq>

Backyard Field Day for One

By Matthew G. Vurek, N4DLA

A pandemic and its resulting county health department-imposed restrictions should not be an excuse to forgo *individual* participation in ARRL Field Day. In 1983, there was no pandemic but I still wanted to operate Field Day after graduating from college the previous month. At the time, I owned a solid-state Ten Tec Argonaut 509 80-10 meter HF SSB/CW transceiver. The Argonaut normally resided in a spare room inside my parents' home, coupled to a Ten Tec Model 405 50 watt linear amplifier, MFJ-941B Versa-Tuner II antenna tuner and a two-element 20-15-10 meter quad antenna (that had a 5 element 2 meter yagi stuffed inside it). A homemade dual-band dipole for 80 and 40 meters comprised the rest of my Bethesda, Maryland HF "antenna farm."

I had last attempted a portable operation a few months after I was first licensed in 1977 as WB3GYL. I acquired a small gel-cell battery pack (via a local garage sale) and my father (the future KF6CVA) constructed a 15 meter dipole from surplus TOW missile wire he obtained many years earlier from the Montgomery Iron & Metal scrapyard in nearby Rockville. I took the Argonaut, battery and dipole on a trip with my parents to the Big Island of Hawaii but was never able to contact anyone in the Novice portion of the 15 meter CW band.



N4DLA attempts to operate "backyard portable" on 15 meter SSB during ARRL Field Day on June 25, 1983 in Bethesda, Maryland. (WB3LJY photo)

Hoping for better results in the 1983 Field Day, I set up the station at the home of Jorge, WB3LJY. We both obtained our licenses while attending the same public high school (Jorge moved to Florida a few years later and is no longer licensed). He was a Technician class licensee (and had no HF antennas) while I had upgraded to General class in 1978. We never joined any of the local amateur radio clubs as some of their members had a blatant aversion to younger hams (one member accused me of being a "bootlegger" [unlicensed operator] on his club's 2 meter repeater due to my 4th district callsign, since the newest edition of the *Amateur Radio Callbook*

still listed me in Tennessee where I attended and graduated from college). Jorge's parents let me set up my Field Day station on a table in their backyard on a sunny Saturday June 25, 1983.

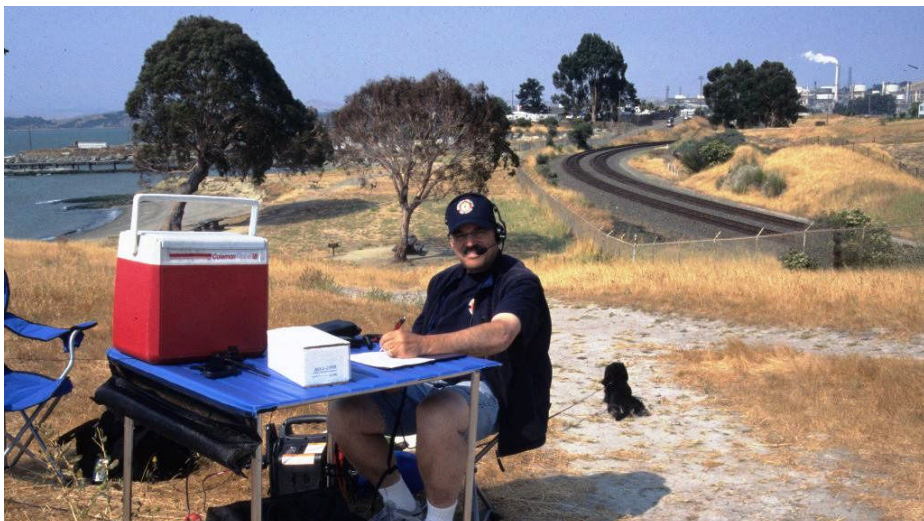
Jorge worked in the solar energy industry and supplied an ARCO solar panel that I used to charge a surplus golf cart battery, thus adding a solar power bonus to my entry. I strung one end of the dipole from his parents' house. Operating in class 1B (one transmitter portable with battery power), I heard a lot of stations but didn't contact very many (I didn't bother to mail my entry to ARRL). What I did do was learn how to set up a simple outdoor station and discover what was needed to improve its performance (get the antenna up higher, for one). I did not operate portable in another Field Day until 2008 and haven't used my Argonaut and its amplifier in any Field Days since, although they remain in my shack today, over 43 years after I purchased them new in 1977.

The following page describes a two-person portable Field Day station that could conceivably be set up by two family members, while complying with county health department "social distancing" guidelines.

Field Day 2008 at Lone Tree Point Regional Park

By Marty Heyman, W6MDH (MDARC President 2006-2007)

With Matthew G. Vurek, N4DLA



The 2008 ARRL Field Day (FD) was held on the weekend of June 28 and 29. I decided to take up the offer of fellow K6ORI member Matthew G. Vurek (N4DLA) to operate a Class 2B portable battery-powered FD station (K6ORI) in Lone Tree Point Regional Park in Rodeo. This location features a high bluff above San Pablo Bay with a clear view from Mt. Tamalpais to the northwest to Vallejo in the east and no annoyances such as power lines. After parking a few hundred yards away, N4DLA and I hauled several bags of equipment towards our transmitter site. My dog Jordan declined to haul anything and instead obediently followed us while tethered to his leash.

W6MDH on the air while his dog Jordan eyes the Union Pacific railroad tracks during Field Day on June 28, 2008 (N4DLA photo)

The tide was out as we set up the station on a bluff overlooking San Pablo Bay. I unfolded and assembled a lightweight camp table. The wind

soon tried to sweep the table away from us until N4DLA placed his drink-laded cooler upon it. With the cooler aboard, the table stayed put. The wind was still appreciated for keeping us cool in the hazy sunshine as well as directing away the smoke from hundreds of fortunately distant wildfires.

Next was the antenna erection. A convenient metal signpost served as the mount for my Buddipole® HF antenna. N4DLA suggested we try 40 meters first since the band is traditionally crowded with FD stations and QSOs were usually easy to accomplish. However, trying to find a good SWR on the Buddipole anywhere on 7 MHz was like trying to get the late pop singer Amy Winehouse to “rehab”...it was “No! No!! No!!!” My MFJ antenna analyzer never seemed to be satisfied. N4DLA kept a close watch on the analyzer’s SWR reading while I unwound the counterpoise for the antenna. The reading changed radically anywhere from 5 to 1 to 15 to 1 and N4DLA’s lips had trouble saying the vacillating numerals out loud due to these rapid fluctuations. Finally, we managed to get a 2 to 1 reading so it was then time to set up the transceiver.

The HF rig of choice was my Yaesu FT-817ND HF/6m/2m/432 MHz portable transceiver. It is considered QRP (low power) as it has an RF output of only 5 watts. Our power source was a Powerstation PS1100 portable battery which had multiple outlets. I plugged in the rig, slipped on my Heil headset and flipped the switch. It was now about 3:45pm and the 40 meter band was full of SSB signals. Problem was, none of them seemed to hear me on the ‘817. N4DLA was having no easy time of it on VHF FM, either. He was bellowing “CQ Field Day” into his Icom T-81A portable (anointed with a long RH-777 gain antenna) and not receiving any answer on 52 MHz, 146 MHz or 446 MHz simplex. Unlike me, though, he wasn’t hearing any stations, either, so at least he had a better excuse for his lack of QSOs. “I wonder who will make a contact first?” he pondered. Indeed, I silently wondered if we would make ANY contacts AT ALL.

After 45 minutes of trying on 40 meters, N4DLA suggested we QSY to 20 meters. This time, we quickly matched the Buddipole® to a nearly perfect SWR on 14 MHz. N4DLA instructed me to call the loudest stations I could hear on the band. The first QSO came quickly with a “junior op” using special event callsign K0G in the Colorado. Success! Meanwhile, N4DLA was still being answered by a very loud silence on VHF. He had figured there would be “mountain top” FD stations around the area he could work from our rather maritime-enhanced location but if they were there, they were not on VHF FM. Meanwhile, the little 5 watts on 20 meters from the ‘817 gave me QSOs from KH6RS in Hawaii to W5AC in Texas to N4OX in Florida.

As the fog began to roll in over the bay, we decided to QRT in order to return to our respective homes in time for dinner. Since we set up a portable station in a public park, we earned 100 bonus points and earned another 100 bonus points for using battery power. Even with a “5” multiplier for QRP QSOs, our bonus points were significantly higher than our QSO points. Still, I enjoyed the satisfaction of working transcontinental and transoceanic QSOs during FD with my 5 watt transceiver and nothing more than what N4DLA termed a “coat hanger on steroids” for an antenna.

AMATEUR RADIO LICENSE TESTING RESUMES !

Larry Loomer, KI6LNB, an ARRL Volunteer Examiner Coordinator, announces an amateur radio license testing session will take place in Concord, on June 20, 2020

Examinations available for all license classes - Technician, General and Amateur Extra classes.

The question pool for the Amateur Extra license class changes on July 1, 2020. This may be your last opportunity to take an Amateur Extra license class test before the new question pool comes into effect. Act now!

In these days of "shelter-in-place" restrictions, KI6LNB and his team have developed a system of testing which fulfills all the requirements for safe assemblage for examinations....So If you know of anyone who wishes to take an amateur radio license examination, please contact Larry at his email address:

<larylloomer@yahoo.com>

Don't miss this opportunity to obtain your new license, or to upgrade your existing license.



BOARD OF DIRECTORS MEETING

Virtually via ZOOM May 4, 2020

Attendees: Larry Bradley KK6QPE, Ed Morales KJ6KYT, Larry Loomer KI6LNB, Cathi Walton K2CJW, Ron Bunch W4FEK, David Piersall N6ORB, Mike Warren W6MEW, John Primus AF6RJ, Mike Patterson N6JGA, Trevor Hall WA6JAU, Roger Hooten W6UZ, Marilyn Warren W6MEW-YL, Cal Vasquez K6VT, Jim Siemons W6LK, Jim Tittle K6SOE, Dick Wade WM6G, Tim Barrett K6BIV, Eric Ferguson KA6USJ, Christopher Brown N6CMB, Bob White K6RWW, Tom Kramer WA6NYP, Kevin Fellon K6FEL, Terry Buxton KK6KGX.

7:07 PM: The virtual meeting was called to order by President Larry Bradley. Introductions were made. Minutes of the last board meeting were approved. The President sent out the agenda prior to the meeting. The agenda was reviewed and approved.

President: He is still sheltering in place in Oregon. He will be returning at the end of May.

Vice President: There will be a virtual General Membership meeting in May. The speaker for May will be Marcel Stieber AI6MS, speaking on APRS. The meeting will be simulcast on MDARC ATV.

Secretary: No report.

Treasurer: Cathi Walton K2CJW, reported that the additions to the budget report for April 2020 were routine expenses, except for the donation of \$171.16 to the Trinity Lutheran Church from the licensing classes. The changes to the figures on the budget sheet were discussed.

Vehicle: The chairman received the comments on his vehicle procedures. He has more things to describe and expand on. We need periodic check lists for the van. We need to organize monthly, quarterly and annual checks. The "Raise the Mast" procedure was accepted. The "Mast Maintenance" procedure was accepted. The "Van Generator" procedure was accepted. We are waiting for the "Van Maintenance Check List" to be completed.

Emergency Coordinator: The Zoom virtual meetings clearly illustrate a realistic experiment successfully executed and a useful tool for communication.

Directors: No reports.

Education: MDARC has officially vacated the Trinity Lutheran Church by the end of April. The tentative schedule for the start of the General Class is August 4. The team meeting is to be scheduled. All of the Technician and General slides have been reworked.

Digital Media: We now have Google Drive for committee document storage. The committee chairs should utilize this benefit. The website is going fine. The Digital Media Chairman will give the board members access to their files. Official club documents and meeting minutes will be placed on the Google Drive.

Outreach: There have been communications about testing and class schedules.

Technical: It was noted that the repeater clock in the controller was drifting. This was updated. The MDARC 2020 directory is being reviewed. Matheson Ott joined the meeting. He has hardware to donate to MDARC members for MESH. Antenna(s) will be added to the building on South Peak. The QRZ listing was updated by Jim Tittle with the FCC. Dick Brown is the trustee for W6LGW.

Field Day: We will attempt to secure permission from the BART Real Estate Group to use the lower parking lot at the North Concord BART Station.

License Testing: The chairman is collecting email addresses of those who are inquiring about license testing.

Membership: The committee received 34 renewals in April. We are approaching 300 members. We have welcomed 21 new members this year.

(continued on the following page)

Unfinished Business:

1. Comm. Van Written Policy: Covered above.
2. Membership Polling Questions: The results were briefly shared with the board. It was determined that nothing further will be done with the poll. We are calling it a wrap, a done deal.
3. Radio Lending Library: Covered above.
4. Scholarship Committee: It was decided to table the scholarship paperwork until the club determines if we will be having Pacificon, and if there will be a profit from Pacificon to fund the scholarship. The "first tier" geographical area on the scholarship document will be the East Bay Section. The "second tier" geographical area on the scholarship document will be the Pacific Division of the ARRL. A motion was approved to accept the scholarship document as rewritten.
5. Textbook Lending Library Document: This is a policy statement. It does not need a vote from the board.
6. Virtual Meetings: The June board meeting will be another Zoom meeting.

New Business:

1. Pacificon: Pacificon will hold off on the registration until June, pending Julie's decision. We will wait and see.

Adjournment: 9:04

Respectfully submitted,
Larry Loomer, KI6LNB, MDARC Secretary

GENERAL MEETING MINUTES May 15, 2020 via Zoom Teleconference

7:01: The meeting was called to order by the President who was out of town in Oregon. There were no revisions to the meeting minutes from the previous meeting. The President will be returning during the first week in June.

The Vice President reported that Allan Thompson is scheduled to speak at the June meeting.

The Secretary had no report.

The Treasurer's March report showed that there is \$29K+ in the checking account, \$28K+ in the savings account, \$56K+ in the Self-insurance Fund and \$18K+ in the Pacificon Fund.

The Directors had no reports.

The Tech. Committee had a virtual meeting on May 2. All systems are working great. The committee is discussing MESH communication with other ham radio clubs in the area.

Education: We have a venue for the General classes on August 4, subject to the modification of the shelter-in-place orders. An Extra class will be offered in Fall 2021. A question about scheduling a GOTA class was brought up by member Marlene Dotterer, KN6IKA. She wants to know about HT selection. One member suggested that there are a lot of good videos on YouTube.

Emergency Communication: Ron Bunch, W4FEK, announced that all is running well.

Pacificon: The committee is monitoring the COVID-19 Virus situation. and has Pacificon in a holding mode. The website is live.

Membership: Roger Hooten announced that we have 380 paid members in the middle of May. We are approximately 61 members short of last year.

Vehicle Committee: It is ready to roll at a moment's notice. Small solar chargers are being powered by a single 30 watt solar panel.

(continued on the following page)

Field Day: ARRL has not cancelled Field Day. The committee is going to apply for the use of the North Concord BART Station parking lot. Right now, there is a three hour limit on gatherings in Contra Costa County, which would not be good for a club Field Day setup.

Unfinished Business: None

New Business: None

A presentation by Marcel Steiber AI6MS, on Automatic Position Reporting System (APRS) continued forward.
9:04: The meeting was adjourned.

Respectfully submitted, Larry Loomer, KI6LNB, MDARC Secretary

GOTA = Getting On The Air

We are planning a GOTA Class for our recent Technician class students, and any MDARC hams that would like to join us, on

Friday, June 12, between 6:00 PM and 8:00 PM, via ZOOM at this link.....

<https://us02web.zoom.us/j/81807005904?pwd=bFRtTFVUb2p4WGtvN2Z3cm1qSVISQT09>

Meeting ID: 818 0700 5904 Password: 061083

Please send an email

to HamRadioClass@gmail.com for Friday and Saturday so the moderators will let you into the Friday meeting and reserve a spot in the Saturday class. The Saturday physical class is limited in size and it's first come first serve in terms of reservations to hold a spot.

Let us know if you have your own radio and if it needs programming..

Friday June 12, -

We will review simplex and repeater operation. We will review the use of memory channels.

We will be presenting various recommended HT models so that you can make a decision as to which HT you would prefer to purchase. At this time we recommend the Yaesu FT-60, and the Wouxun KG-UV2D or similar Wouxun model. HT accessories, aftermarket antennas, power options, and programming software will be discussed as well.

Please make a reservation for this class at HamRadioClass@gmail.com

Zoom Video Meeting Instructions

Note: Zoom videoconference meeting access IDs and passwords will be distributed only through our [MDARC Groups.io email reflector](#). They will not be posted on the club web site or other publicly available forums, in order to maintain needed security precautions.

General Information:

All meeting hosts and attendees are expected to review these guidelines prior to any Club meeting and abide by them throughout the meeting.

Zoom has two kinds of events: Meetings and Webinars.

Meetings:

In Meetings, everyone can see and hear everyone else (unless an individual has been muted or stopped their video). Everyone can also share their screen (unless blocked by the host), for demonstrating something or showing a PowerPoint, as examples.

Webinars:

In Webinars, only the presenter(s) can be seen and heard. Questions and comments are normally handled by either submitting the question by typing it into the Question pop-up box or the Chat area; or using the “Raised Hand” icon, then asking your question when the host unmutes and acknowledges you.

Webinars are an extra-cost feature in Zoom, so all Club events will be Meetings. This means every participant must be diligent about abiding by these guidelines, to minimize disruptions.

Per our Bylaws, Article III, Section 5; Electronic Meetings; Item 6:

(<http://www.mdarc.org/about-us/official-documents/bylaws>)

“Electronic Meetings may be conducted at the discretion of the meeting’s chair. Nothing in this Section shall be construed as to require that any meeting of the Membership, Board of Directors or any committee be provided with the facilities for an Electronic Meeting, or that any attendee has the right to attend any meeting by electronic means.”

If you have any questions about using Zoom, please let us know at info@mdarc.org or by calling 925-288-1730.

Go to https://zoom.us/download#client_4meeting

For computers (Windows or Apple), download the “Zoom Client for Meetings”.

For phones and tablets, scroll down and download the appropriate “Zoom Mobile App”

* We recommend using a computer, rather than a phone or tablet, when possible. The screen is larger, the audio is usually better and the controls are easier to use.

Once the app is installed, you can join a test meeting to test your system and your audio.

See <http://www.mdarc.org/about-us/zoom-guidelines/zoom-how-to>

(continued on following page)

Zoom Video Meeting Instructions (continued)

* Be sure to review the “Attendee Controls in a Meeting” on Zoom’s web site. See our [Zoom How-To page](#) for the link.

* Please attend via a video connection whenever possible. Although calling into a meeting by audio-only is allowed, it’s strongly discouraged. Attendees are at a substantial disadvantage when they can’t see the material being displayed on-screen. If you don’t have or don’t want to use a camera yourself, it’s possible to attend a video meeting while keeping your video image turned off. That way, you can at least see the material. This may somewhat restrict your ability to participate, however.

* If you aren’t fully familiar with using Zoom, please see our [Zoom How-To page](#).

* Once in a meeting, check your name as it appears at the bottom of your image, or in the Participants List. Change it to one appropriate for the meeting, if needed. We suggest adding your call sign, for example. You can also make your name change permanent in your online profile. See our [Zoom How-To page](#) for instructions.

Video:

- * Test your camera before the meeting.

Make sure you have the correct camera selected in your PC’s settings and that it’s working.

- * Use appropriate lighting (no bright windows or lights behind you; light your face well, etc.)

- * Do not use a camera angle that’s too low (e.g., many laptops on a table or desk).

No one wants to stare up your nostrils the entire time.

- * Check your own image. Is this how you want to be seen? Is your face clear and well lighted?

- * Wear appropriate clothes (please no pajamas, bath towels, etc.).

- * Check the background of your image for anything you may not want others to see (junk in the corner, unmade beds, very personal items, etc.).

- * Do not use a Zoom virtual background unless your PC can handle it.

Get a green screen if you really want a virtual background.

Turning on Zoom’s virtual background feature without a green screen often messes with your image and distracts from the meeting.

- * Remember that, in Meetings, everyone can see you at all times.

Temporarily stop your video if you must do anything you don’t want everyone to see.

Audio:

- * Test your audio before the meeting.

Make sure you have the correct microphone & speakers selected in your PC settings and that they’re working. Does your microphone sound good? Are you easily understood? If not, consider an external microphone.

- * Keep your mic muted unless you’re speaking.

- * Understand that if your audio is very poor, or if there are background noises, side conversations, etc.; the host may mute you.

* Remember, you must click “Join with internet audio” to get into the meeting. You will be placed in the “Waiting Room” until the host admits you. Your audio, both your speakers and your mic, will be muted until the host admits you. Once in the meeting, your mic will remain muted until unmuted by you or the host. Unfortunately, this is a necessary security measure.

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

ATLANTA, GA
(800) 444-7927

WOODBIDGE, VA
(800) 444-4799

SALEM, NH
(800) 444-0047

PLANO, TX
(877) 455-8750

ONLINE STORE
WWW.HAMRADIO.COM

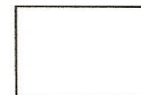
New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523
www.mdarc.org



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781-441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <http://w6cxatv.mdarc.org/>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

June 2020 and July 2020 Club Calendar

Friday June 19, 2020

Friday June 27-28, 2020

Saturday July 4, 2020

Monday July 6, 2020

Friday July 17, 2020

MEETING IS VIRTUAL ! Watch on DATV Repeater or join via zoom.us

ARRL FIELD DAY - TO BE DETERMINED

MDARC Technical Committee Meeting - **NO MEETING THIS MONTH**

MDARC Board of Directors Meeting - **VIA VIDEO CONFERENCE**

MDARC General Meeting - **TO BE DETERMINED**